

**Mohr, Ashley**

**From:** Peterson, Barry T. <Barry.Peterson@WestonSolutions.com>  
**Sent:** Tuesday, December 09, 2014 12:25 PM  
**To:** Mohr, Ashley  
**Cc:** Delgado, Paige  
**Subject:** RE: OBODM Model Set-up Questions

Ashley

I am free anytime. (b) (6)

The data input below looks fine to me.

The placement of the pans, unless significantly far apart, would not have significant impact on the results, except possibly at very short distances from the source. Modeling them as a single burn pan is fine.

As for averaging periods, I would just be comparing to NAAQS, if that is your question. The output would be in ug/m3 for comparison. For 1-Hr NAAQS, I would use the maximum emission rate times the model unity result. For 8-hr, 24-hr and annual NAAQS, you would use an 8-hr, 24-hour and an annualized rate for comparison to each averaging period NAAQS.

Barry

**From:** Mohr, Ashley [mailto:Mohr.Ashley@epa.gov]  
**Sent:** Tuesday, December 09, 2014 12:58 PM  
**To:** Peterson, Barry T.  
**Cc:** Delgado, Paige  
**Subject:** OBODM Model Set-up Questions

Barry –

Kevin indicated that you are expected to be back in the office today. So, I am hoping that we might get a chance to discuss some questions I had regarding OBODM set-up. My questions mostly deal with source inputs to make sure that the assumptions and approach make sense with respect to the anticipated open burning operations at Camp Minden. I have summarized the operational information, as well as, the source specific model inputs below to help facilitate our discussion. I also have some questions related to output options and averaging periods.

**Operation Information:**

- Each burn event will involve open burning of M6 in multiple burn pans (approx. 10-20 total pans). The pans will burn in a sequence so that only one pan is burning at a time. Total burn time for each burn event will be less than an hour. This hour will include the total burn time for all of the pans and the pause in between each pan being ignited.
- Burn pans are expected to be 25 ft x 10 ft
- Each pan holds up to approx. 1600 lbs of material. Estimated max amount burned in an hour (per burn event) is 22,000 lbs.
- Plan to burn all on-site material in 1-year → 15 million lbs to be burned in a year
- The actual physical placement of the pans is not set in stone since this is preliminary modeling

**Current Model Set-up:**

- 1 Line Source with Quasi-continuous emissions (OBODM suggested quasi-continuous for open burning)
- Source centered at 0,0 with initial dimensions of long side = 7.62 m short side = 3.05 m [converted from 25 ft and 10 ft]

- Default initial vertical dimension of 10 m (this was model default; I tested with 1 m instead and did not see any impacts on results)
- Amount of material burned: 22,000 lbs; burn rate: 6.11 lb/s [converted from 22000 lb/hr]
- Default Fuel Heat Content
- Unit Emission Rate = 1 lb pollutant/1 lb of explosive
- 1 year met data from Shreveport

Let me know when you might be available to discuss. My afternoon is open from now until 3 PM (central).

Thanks,

*Ashley*

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